

ABSTRACT OF THE DISCLOSURE

The radiographic apparatus according to this invention has a scan frame with an X-ray tube frame and a flat panel type detector (FPD) frame arranged therein. The
5 X-ray tube frame surrounds an X-ray tube, and the FPD frame surrounds an FPD. The X-ray tube frame and FPD frame are rotatable together about a sectional axis. Thus, the X-ray tube and FPD rotate on the respective frames together directly about the sectional axis (for a main scan).
10 Further, the X-ray tube and FPD are rotatable together about a scan center axis (for an auxiliary scan). The main scan and auxiliary scan are combined to achieve a high-speed scan and improves resolution in the direction of the sectional axis, thereby obtaining a three-dimensional
15 sectional image with isotropic spatial resolution.